



January 15 – February 15, 2005  
at the LeRoy Collins Leon County Public Library

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## FOCUS ON PHYSICS TREASURE HUNT GRADES 4-6

### ENTRY FORM

Name \_\_\_\_\_ Phone \_\_\_\_\_

School \_\_\_\_\_ Grade \_\_\_\_\_

### IMPORTANT!!! READ THE TREASURE HUNT INSTRUCTION SHEET BEFORE STARTING.

1. What are Nanokids? (To answer this question, you must go to the Science News for Kids website [www.sciencenewsforkids.org](http://www.sciencenewsforkids.org) , click on **Article Archive**, on the “List Articles By:” line pick “ABC Order”, scroll to page 15, click on “The Incredible Shrunk Kids” article. Your answer will be there.)

Draw a Nanokid:

2. What is a molecule?
3. Do you know what a **simple machine** is? Hint: It is NOT big, noisy, complicated thing like a car engine. In physics terms, a MACHINE is any device that makes work easier. Write and draw an example of a simple machine.

(Can't find the answer? Try <http://www.mos.org/sln/Leonardo/InventorsToolbox.html> )

4. In 1905 this famous physicist wrote something called the Theory of Relativity, what was his name ? (Hint: look up “theory of relativity” in Google OR look up the term in the library catalog under **keyword** OR use some of the resources listed on the instruction sheet.)

5. Who was Sir Isaac Newton and what did he discover?
6. Who was Galileo Galilei and what is he famous for?
7. Marie Curie was one of the most famous women physicists. She was married to another physicist, Pierre Curie and together they discovered 2 radioactive elements called Radium and Plutonium. What was Marie Curie's maiden name and where was she born?
8. What causes rainbows to form after it rains? (Hint: any book having to do with *light* , for example *Light* by David Byrne -J 535 Bur- will have the answer.)
9. How do magnets work? (Hint: there are many ways to answer this question, any book on magnets will do. However, if you want to have fun ask the "Physics Van" at <http://van.hep.uiuc.edu/> , click on "Ask the Van" and then, "Electricity and Magnets")
10. Last question, you're almost done! BUOYANCY is the tendency for an object immersed in a liquid (or gas) to rise (or push up). For example, try to sink your rubber duck into the water in the bathtub and you'll see what "buoyancy" is all about. What was the name of the person who discovered the concept of buoyancy and what country was he from? (Hint: you can look up "buoyancy" in **keyword** in the library's catalog to find lots of books on this subject or use any of the other resources listed in the instructions.)

You are finished. Good work!!

You can mail the completed form to:

LeRoy Collins Leon County Public Library  
Attn. Maria Mena, Focus on Physics Treasure Hunt  
200 West Park Avenue  
Tallahassee, FL 32301

Or drop it by any of the LeRoy Collins Leon County Public Libraries **by Wednesday, February 15, 2005.**